

Datasheet: MCA2608

BATCH NUMBER 167248

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|----------------------|-------------------------|
| Description: | MOUSE ANTI HUMAN C4c |
| Specificity: | C4c |
| Other names: | COMPLEMENT COMPONENT 4c |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | 033D-69.4.1 (10-12) |
| Isotype: | IgG1 |
| Quantity: | 0.1 mg |

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

| | Yes | No | Not Determined | Suggested Dilution |
|--------------------------|-----|----|----------------|--------------------|
| Flow Cytometry | ▪ | | | |
| Immunohistology - Frozen | ▪ | | | |
| ELISA (1) | ▪ | | | |
| Western Blotting | ▪ | | | |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)Clone 10-12 binds both C4c and C4 and so is not suitable for all ELISA applications.

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|---------------------------------|--|
| Target Species | Human |
| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A from ascites |
| Buffer Solution | Borate buffered saline |
| Preservative Stabilisers | <0.1% Sodium Azide (NaN ₃) |

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|--|--|
| Approx. Protein Concentrations | Current, batch-specific concentration 1.15 mg/ml |
| Immunogen | Purified human C4c. |
| External Database Links | <p>UniProt: P0C0L5 Related reagents</p> <p>Entrez Gene: 721 C4B Related reagents</p> |
| Synonyms | CO4, CPAMD3 |
| RRID | AB_844529 |
| Specificity | <p>Mouse anti Human C4c antibody, clone 033D-69.4.1 (10-12) recognizes complement component 4c (C4c). The complement 1 complex cleaves complement 4 (C4) to form C4b and C4a. C4b levels are strictly regulated. Single site cleavage of the C4b's alpha chain by Factor I forms iC4b and blocks C3 convertase, inhibiting opsonisation and activation of the classical pathway. iC4b is further degraded into the inactive fragments C4d and C4c. C4c consists of two a-chain fragments, alpha 4 (13 kDa) and alpha 3 (25 kDa) linked to a beta chain through disulphide bridges and a gamma chain. It is expressed in the blood plasma.</p> |
| Histology Positive Control Tissue | Kidney sections from post-streptococcal glomerulonephritis patients. |
| Further Reading | <ol style="list-style-type: none"> 1. Press, E.M. & Gagnon, J. (1981) Human complement component C4. Structural studies on the fragments derived from C4b by cleavage with C3b inactivator. Biochem J. 199 (2): 351-7. 2. Leung, E. <i>et al.</i> (2006) The complement regulator C4b-binding protein (C4BP) interacts with both the C4c and C4dg subfragments of the parent C4b ligand: evidence for synergy in C4BP subsite binding. Biochemistry. 45 (27): 8378-92. |
| Storage | <p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p> |
| Guarantee | Guaranteed until date of expiry. Please see product label. |
| Health And Safety Information | Material Safety Datasheet documentation #10077 available at: https://www.bio-rad-antibodies.com/SDS/MCA2608 10077 |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

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|---|---|
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | Alk. Phos. , HRP |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| Goat Anti Mouse IgG (STAR70...) | FITC |
| Goat Anti Mouse IgG (H/L) (STAR117...) | Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC , HRP |
| Goat Anti Mouse IgG (STAR77...) | HRP |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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|----------------------------------|---|------------------|---|---------------|---|
| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M423500:231018'

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